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ABSTRACT

The physical environment has been the focal point of many recent innovative changes in educational facilities. Public acceptance of open space schools as a response to changing educational philosophies has generally been favorable. A problem, however, is not the planning and construction of new schools, but the modernization of existing ones. A major concern is treating the classrooms in such a way that they enhance and encourage an environment similar to that prevalent in open space schools. Suggestions are given in text and illustrations. (Author/MLF)

EA 007 977

APPLYING OPEN SPACE

TECHNIQUES

TO SELF-CONTAINED CLASSROOMS

REDUCATION

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Children seemingly have a natural thirst for knowledge and understanding of some aspect of the world in which they live, and very early they begin to "educate" themselves by listening to, observing, and imitating others. In their play they busy themselves with illustrating their daily experiences, and if they should happen upon something beyond their understanding they question their family and peers. During this natural process, they are not aware that they are learning, but rather pursuing their interests and communicating with others.

When it is time to begin school, many children are confronted with a new experience. They become aware that there are more things in the world to know and understand than they had ever imagined. But along with this new exposure come restrictions on those freedoms which facilitated their early learning experiences. An emphasis is now placed on learning that has been predetermined, and to insure achievement within a given period of time, they are taught; drilled and tested until they have proven to be at a prescribed level of achievement. Often times, very little is left to the natural thirst which inspires their imaginations.

A child will learn in any given circumstance, but what he learns is heavily dependent on the environment of that situation. Children who are free to seek, explore, discover, dream, perceive, fail, relax, and play, are more likely to derive a greater amount of knowledge from a given situation than those who are restricted by inflexible conditions, for they are continuing a natural process of "self-education." They are communicating with their peers about the portions of the world to which they are exposed. They encourage each other and share their accomplishments,



physical space, in terms of configurement or furnishing. What is required is a spirit on the part of both teachers and students which will encourage self-motivation to fulfill the natural desire to acquire and make use of knowledge and understanding. The teacher can encourage this spirit with emphasis on respect, trust, and honesty in dealing with the students as individuals. The students on acquiring this spirit are likely to gain that self-confidence which will enable them to continue their natural "self-education" process.

This is not to say that a child left alone to learn in even a stimulative environment will acquire those skills educators deem essential for the future pursuit of knowledge. Certainly, teachers who are understanding and sensitive to the child's needs, are essential for guidance and provision of resources for the child. But in a learning situation in which instruction is individualized, it is almost impossible, student/teacher ratios being what they are, for a child to have the constant attention of his teacher(s). Hopefully, proceeding at his own pace, he can be so stimulated by his environment as to continue in those general directions seen beneficial to him by his teachers, and within that given framework, feel free to explore other peacibilities on his initiative.

Thus accepting the necessities of a teacher's guidance and the spirit of self-motivation as integral parts of a child's learning process, the physical characteristics of the space in which they must function should also contribute to this "total environment." Physical environment has indeed been the focal point of many recent innovative changes in educational facilities. In attempts to optimize resources, the physical school plant in

addition to housing educational programs, must also contribute and play a large part in the natural growth and operation of its various activities. Open space schools are examples of a valid means of providing such facilities. Most of them are capable of housing changing educational programs and at the same time respond to the needs of both teachers and students on an individual basis. Restrictive walls have been removed and flexibility has been built-in to allow for changes in educational specifications and the specific immediate needs of those occupying the space.

of variations in programs during a transitional period is a necessity, it is sive level of education received by all students. While public understanding solution but economics also dictates an extremely slow process. The and 60's are generally in good physical condition and make justification on either side of a corridor. These structures built during the 40's, 50's, abundance of "eggcrate type" buildings consisting of rows of classrooms result of the post-war school population boom, many cities have an struction of new schools, but the modernization of existing ones. As a tion of open space. A problem, however, is not the planning and conmost schools planned for construction in the future will be some adaptaeducational philosophies has in general been very favorable, such that I The public acceptance of open space schools as a response to changing desirable that reasonable and immediate measures be taken that will help public school system has caused a tremendous inequality in the progres presence of new schools housing innovative programs in a city-wide for replacement economically unfeasible. Modernization is the probable



minimize these variations to a level of acceptability whereas no child will be penalized by his attendance of certain schools.

walls and all, as a facility which must house a more innovative educational program. There are already in existence programs for classrooms which utilize open space techniques and many of these involving team teaching efforts and the sharing of students and facilities, make quite an improvement on "single classroom" situations. But it is hoped that with the widespread realization and acceptance of the use of existing buildings, educators, administrators, teachers, and architects will work together in developing a total comprehensive concept for these buildings. Such development would entail searching educational philosophies, administrative procedures, and instructional methodology, but from a physical standpoint the major concern would be treating the classrooms in such a way that they enhance and encourage an environment similar to those prevalent in open space schools.



LASSROOM

confines, a large portion of the educational process takes place. Its atmosphere is as varied as those gram and the grade level of the school. In general, the nature of its activities and physical students and teachers which occupy it, but in traditional educational facilities, and within its The classroom may be considered the basic unit of of special significance in the classroom on the cause of this restricted travel, an environment that to their normal learning programs. Presently, be primary level, students are normally confined to a different centers as their schedules dictate. On the particular subjects, with students traveling to these secondary schools, classrooms may be considered layout are very dependent on the curriculum/ student's ability to retain his freedom to learn, is is both aesthetically pleasing and contributes to the centers, but these travels are only complementary special reading, speech, art, and skill development the day. This does not overlook their travel to particular classroom for the greater portion of as large interest centers housing one or two exception of multi-purpose and all-purpose rooms gram, new or existing, in a classroom building, ever elementary level. However, any educational pro its basic unit of space. These rooms, with the ties, will still have to contend with the classroom as if it allows extensive travel and sharing of facili



particular program may dictate the complete ab space for group assembly. It is possible that a centers, but with the use of furnishings and low that a variety of size and type spaces be available this purpose, but in other classrooms, it is desirable sence of any divisions in several classrooms for libraries, and cafeterias, will be the largest available using them. The possibilities of how the space may up with their size dependent upon what space will specific activities. Small interest centers may be set mini learning center with certain areas given to achieved. Thus the classroom may be treated as a smaller scale than those found in open learning assorted spaces will begin, of course, at a much to the students for different activities. These partitions, many of the same effects may be resource materials which will inspire the children as classroom, whether it is divided or accepted as a allow and the number of students that will be they pursue their learning activities. large space should be alive with light, color, and be treated in the classroom are infinite but every



PHYSICALLY,...

Physically, a classroom is quite suitable for an open atmosphere. An average room is approximately 700 sq. ft. with high ceilings and one or two window walls for natural lighting. The other walls are usually fitted with chalk and tack boards, some of which may be removed. The elements that make a classroom, its walls, floors, and furnishings can all help to make a classroom a "natural" learning environment, if they are treated and used imaginatively. Such treatment, however, should bear in mind limited expense and the hope that most of whatever improvements are made can be incorporated into a general scheme if and when modernization does occur.

377**A**

do much to set a basis for a bright learn-The color and treatment of the walls can Paper applied to an entire surface may well as serving a functional purpose. applied for visual and sensual texture as the wall to provide extra comfort for senses. Carpeting may be extended up with color to appeal to several different treated acoustically, with texture, and mere enclosures of space, walls can be additional learning surface rather than ing environment. If looked upon as an but the basic categories are as follows: few possible surface treatments for walls, and decorative murals. These are only a be painted by students for educational those working on the floor. Cork may be

COLOR

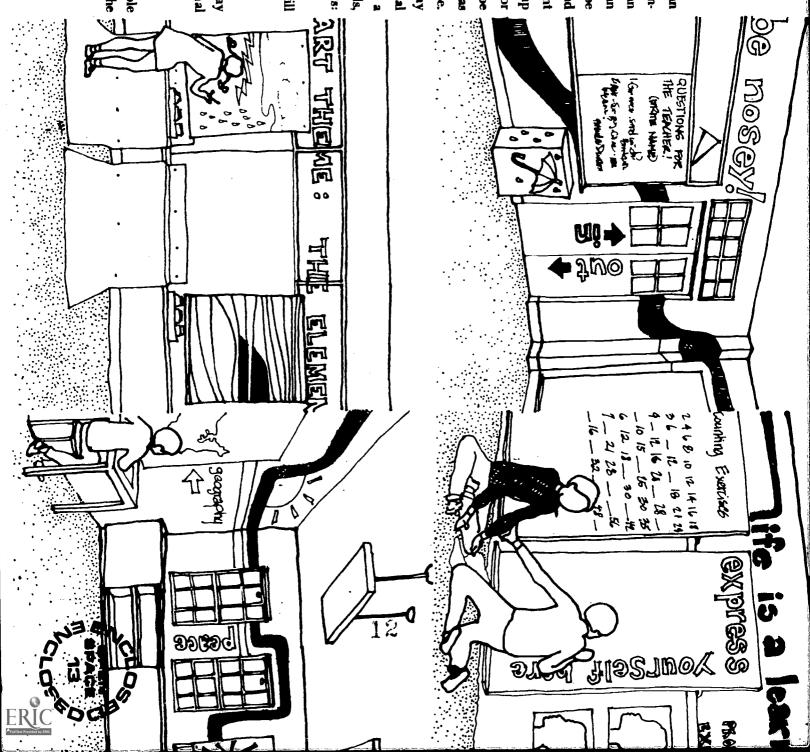
Walls painted a light bright color will help provide a lively atmosphere.

GRAPHICS

Graphics, (stripes, patterns, words) may be painted or pasted on as instructional tools or as decoration.

FUNCTION

Chalk and tack boards that are movable and extend to the floor transform the wall into another learning surface.



ratural colors whose intensities and the secondary colors with the property of the colors whose intensities and three constantly change with the colors whose intensities and three constantly change with season in plant of the colors and those interesting in colors and those interesting in colors and those interesting in colors promote solemuty and depression while others promote gay, being the promote solemuty and depression while others promote gay, being the promote solemuty and depression while others promote gay, being and retresting reclings. Others contribute to relaxation and realings of anxiety. Thus the interest of a five standard environment. The walls in a classroom container virtually disappears. If they are incorporated into a time learning activities, or act as an additional surface on which to work their permanent definition of space can easily be forgotten. In general, a light background color for walls is preferable, but if a classroom will be given mainly to the showing of films, and theatrical presentations, a dark color will make that space more functional. A classroom may also be more effectively divided into areas if instead of using one background color, several colors are used in defining these areas. The application of color to walls in forms of informational and decorative graphics also tends to de-emphasize the wall.

Color should be extended throughout the entire learning environment. Floors, furnishings, and equipment, should all be reflective of varied effects of color. Color can also be applied in a graphical sense such that it aids in defining function. All light switches surrounded by circles of yellow will easily identify that function for younger students. Similarly, water fountains, storage spaces, and other specific areas can all be identified with various colors. Thus color in addition to establishing a more natural environment can also become a functional and educational tool.



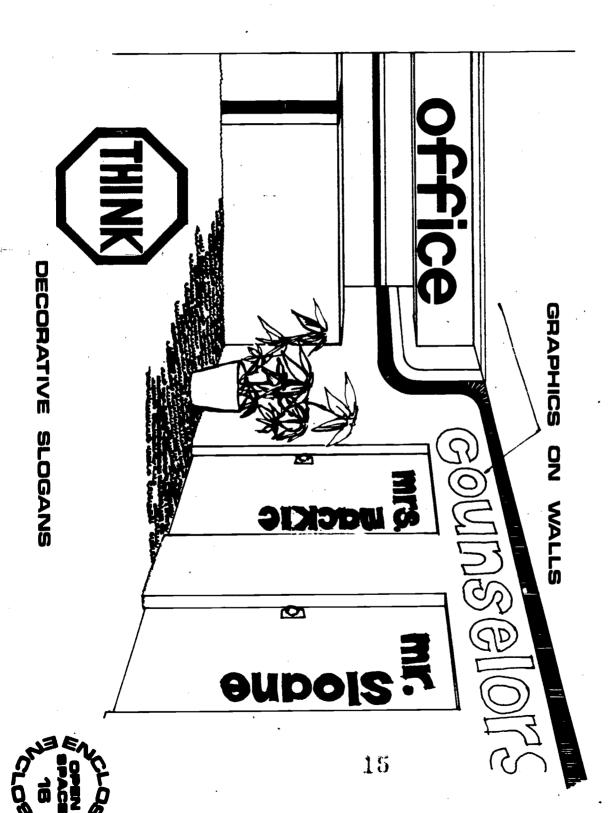
and signs, the contents of which extend from daily procedure to permanent denotations of directional functions, vivid, picturesque signs, or graphics, can provide conceptual as well as physical functions. Among the most common of these are exit signs, numbered classrooms, Almost every space in which children are expected to learn contains an assortment of directions educational experiences, while establishing an environment that is visually exciting. labled spaces according to subject, and the location of administrative offices. In addition to these

coming school year. Designs appear on windows, bulletin boards, and chalk and tack boards, as In late summer, most educational facilities undergo a visual transformation in anticipation of the ment be if the students instead of confronting fairly blase and dismal hallways were confronted teachers prepare for the arrival of the students. But how much more prepared would the environit can be easily understood and used by students of all ages. with color in these areas can help define and organize the entire environment in such a way that educational environment is encouraged. This includes walls in hallways, classrooms, and bath rather than one seemingly austere and solemn. Thus the introduction of graphics into all areas of much more relaxed would younger students be when exposed to a "lighthearted" environment with bold stripes and patterns, gay colors, and numerous assortments of directional signs. How rooms, as well as floors, ceilings, and furnishings within these spaces. This use of graphics along

to its graphical treatment. Those designations required by law such as exit signs and the location of fire extinguishers must be done by the architect in that city codes may dictate certain Everyone involved with an educational facility, from the architect to the students, can contribute a part of an overall comprehensive scheme. Students and teachers can add those graphics which specifications. The architect may also be responsible for major area designations if they are to be materials depending on the desired permanence of the signs. sketches will illustrate a few possibilities. These designs may be painted or applied with various these graphical applications are as infinite as the imaginations of those involved, but the following help individualize and identify the spaces with which they associate themselves. Examples of



GRAPHICS





CHILING

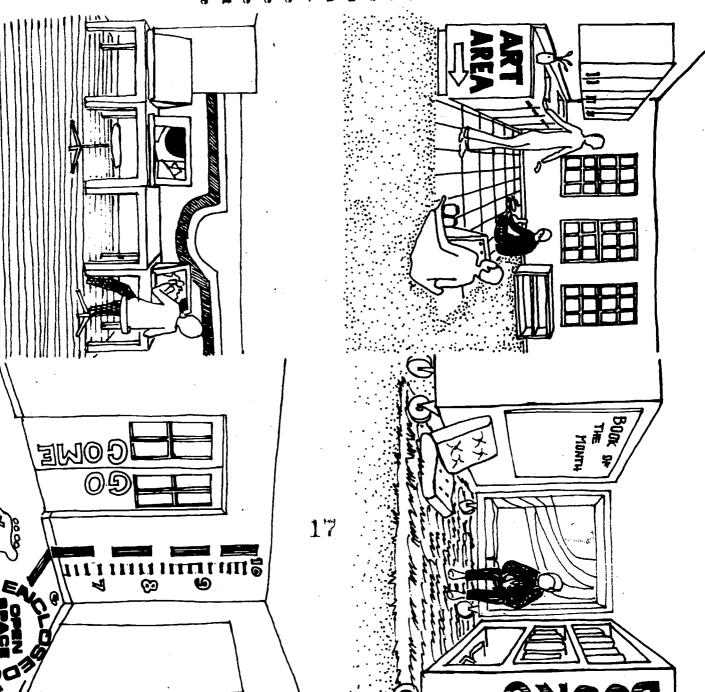
DIRECTIONAL SIGNS
AT STAIRS

BATHROOM DOORS pole slilg E GRAPHI CEUT COMPANY 16

or in educational activities. Carpeting is environment. Throw rugs can be used very conducive to floor activities, and ust on, or stretched out on in relaxation help form a more comfortable learning with and without carpets to help define materials can also be pasted on bare carpeting for these purposes. Different reas where activities which require wathat can be mopped are desirable in lifferent types of areas, and floor tiles er and are considered "messy" take seces of plastic are used on top of the e which can be easily maintained some carpeted rooms, large g and not likely to be PLOOM CAN CHCOMING

FLOORS

floors for instruction and fun.



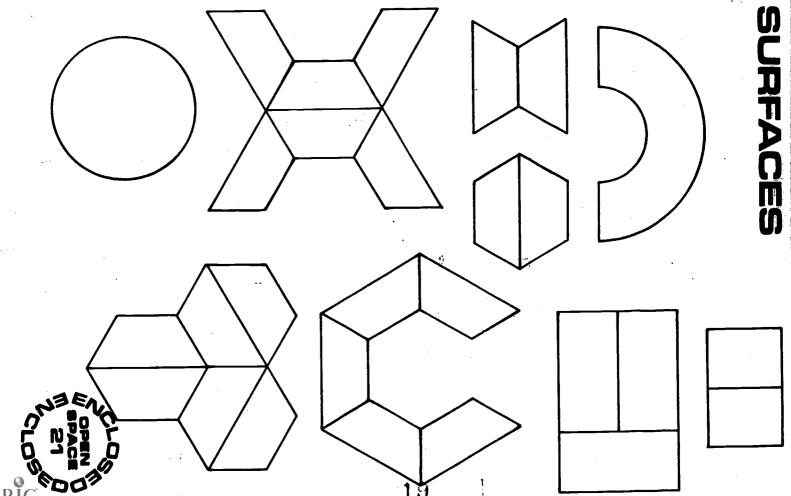
-URNISHINGS

space. are then considered general work areas. Other desks are grouped to form different interest centers which are often terials. All of this storage should be accomodated as efficientboth students and teachers, personal storage for children's of the basic problems. There is a need for clock storage for storage space accessible to students, and indeed storage is one increased amount of resources dictates a need for more stacked with resource materials for numerous subjects. The they or their students have brought in. But in general, the supplied them by the school and other odds and ends which "classroom furniture." Teachers who have been operating An open classroom can make use of just about any available ly as possible in terms of flexibility and consumption of individual possessions, and storage for equipment and ma assigned a desk and chair but rather, share the desks which furniture is used differently. Every child is not necessarily "open" classrooms for years have made use of furniture

The purchasing of new furniture for the classroom should involve the consideration of the basic criteria for the selection of furniture to be used in open space schools. Although confined to smaller areas, the mobility and manipulative characteristics of furnishings are of equal importance. The very need to optimize on all available space makes those components which serve more than one function, have compatible dimensions with other objects, and can accomodate more than one age group, of greater value. In addition, those components which lend themselves to the establishment of different type and size areas, and can contribute to the visual atmosphere of the space, are preferable.

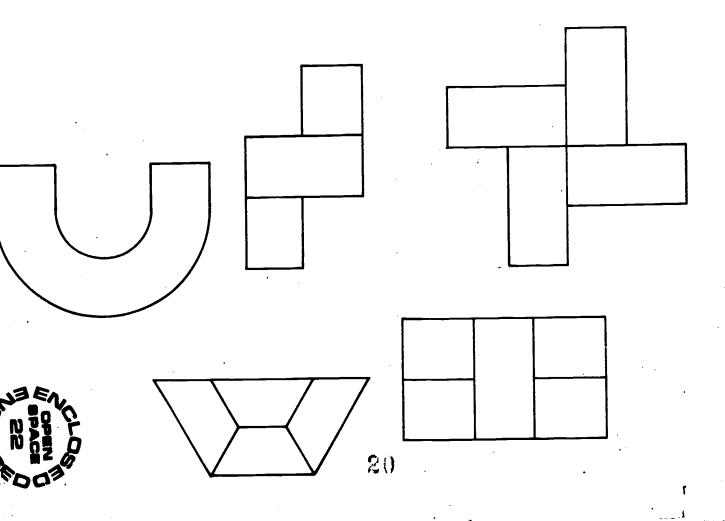


easily to form larger work surfaces for groups of children, individual work surfaces and if they can be combined requirements. Desks, of course, are the most common the children are involved will have different furnishing that at any given moment the different activities in which Again, this does not imply that each child needs a desk, in Students should be provided with adequate work surfaces. vides storage for a child's individual possessions. It is probable that such storage in an open classroom would be they are even more useful. A desk, however, usually prorender storage inside the desk or a shelf underneath useless. would not necessarily belong to individual students. Also, accomplished in tote trays of some kind since the desks such as the round, half-round, "U-shaped," and trapezoidal there are advantages to both rectilinear and other shapes shape of the tables is not especially important in that tables, rather than desks, would be more suitable. The It is therefore recommended that in a new situation, the movement and varied uses of the desks would probably selves to numerous configurations which appeal to several perfect for group activities. Trapezuidal tables lend themtables. The advantages of the round table are obvious. While it can seat one or two students comfortably, it is

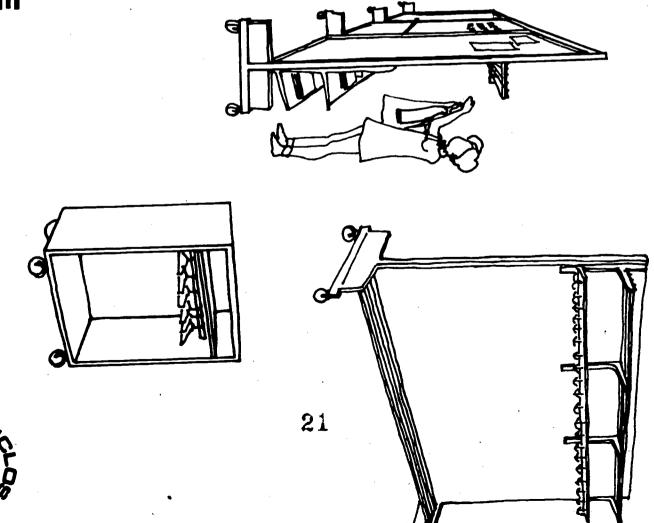


different type and size activities. They generally, however, cannot form right angles and thus do not work especially well in corners, or with curvilinear furnishings. The rectangular tables have the advantages that the irregular shapes do not and in general, work well in most class-rooms. A variety of shape and size tables is advisable for the advantages that can be derived from them individually and in combination.

The floor must be emphasized as a work surface. At home or in casual activities, children naturally sit or recline on the floor. There is no reason why this informality cannot periodically exist in a learning situation, and when given this opportunity, most children do take advantage of it. For this reason, a large number of deaks is not necessary. Therefore, supecially in situations where the floor is carpeted or has rugs, children need a hard surface on which to write or draw. Small boards of hard plastic or masonite are very useful for work surfaces.

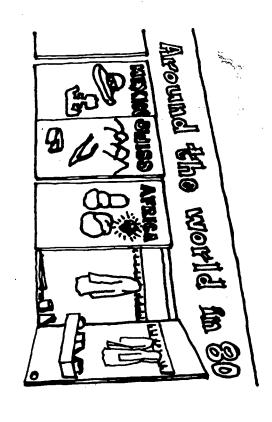


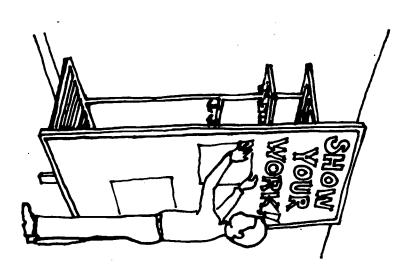
Storage of children's coats, hats, and boots has been accomplished by various methods. Many chool buildings collection of coats whose appearance is often considered have cloakrooms adjacent to classrooms with shelves and educators have often decided that the space in the cloak-"unsightly" is out of view of the classroom. Other schools hooks on the walls. This is efficient storage, and the opment space. Walls that are covered with "unsightly" inside the classroom with lockers. Students, teachers, and have resorted to lining the hallways or an entire wall used for reading areas, teacher preparation, or skills devel room is much too valuable to use for coats when it can be purposes. The coats which contribute very little to the lockers could be better used for display and educational occupying space in the classroom. But because space conis still usable and it places less of a demand for furniture tack boards. This is advantageous in that the wall surface into the walls and have it covered with sliding chalk and a less prestigous space. If the construction of the building educational process are then forced into the classroom into sumption is of utmost significance, if it cannot be built will allow, it is sometimes possible to build cloak storage



CLOAK STORAGE

serves as a space divider or partition. Several manufacturers make portable tack and chalk boards with hooks and shelves on the reverse side. There are also cabinets with unremovable hangers which have chalk and tack surfaces on the back. These come with and without doors depending on whether the purchaser wishes the coats to be visually obscure. While cloak storage is necessary, roles that cabinets and partitions play in shaping the available space into assorted areas and providing additional learning surfaces are of equal importance and the dual functionalism is the type of efficiency fundamental in open class-



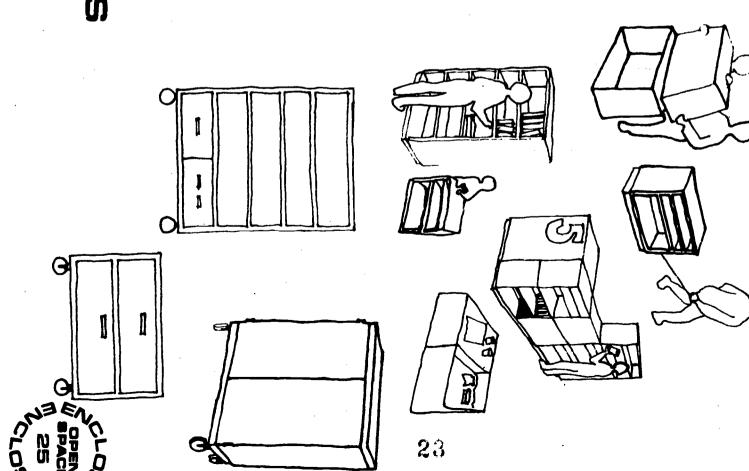




STORAGE

work together in forming different arrangements They are portable and many of the components illustrated to the right are both quite flexible space are even more flexible. The two systems relation to the needs of the students and the can work with each other, its possibilities in it can be stacked, or all the different components students is preferable. If the equipment is moduenough in itself to be moved by one or two Shelving and casework that is portable, and light small machines, and boxes of magazines, paper lar such that the drawers can fit into shelving be provided for reading and reference books pencils, crayons, games, etc. Shelving should also dictates a need for shelving and drawers for available to the students. Such "abundance" be a great deal of resource material readily It is hoped that in the open classroom there wil

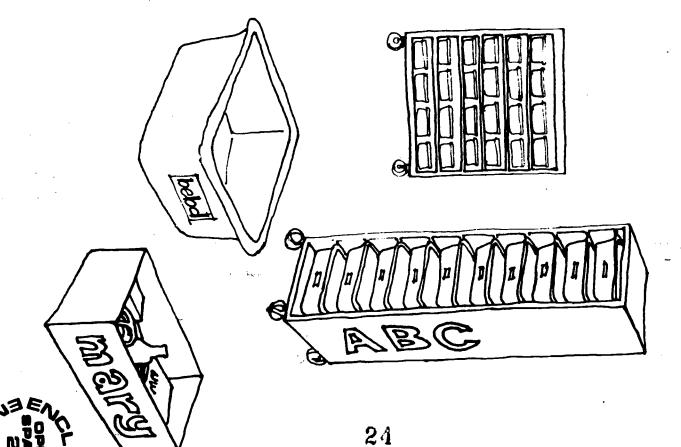
AND MATERIALS



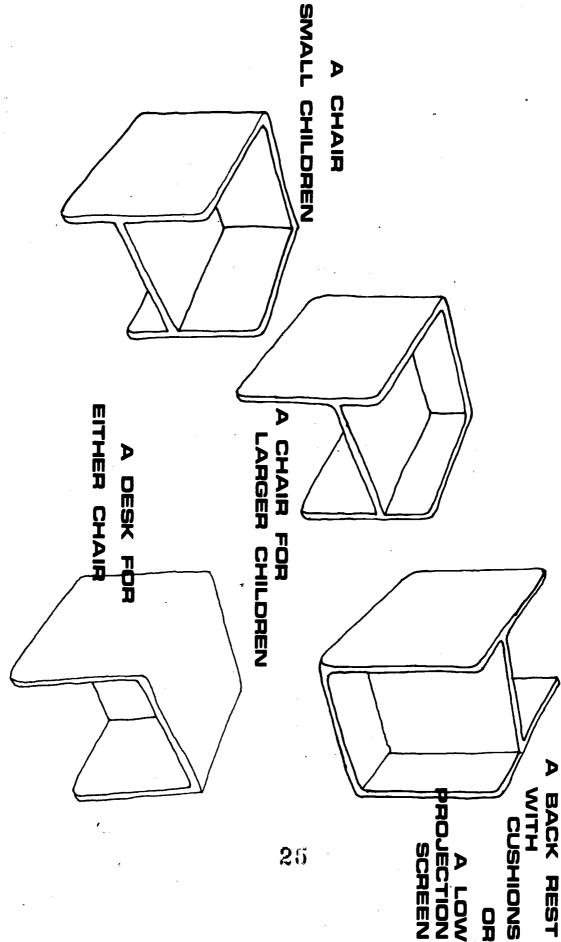


STUDENTS' INDIVIDUAL STORAGE

The individual possessions of children are normally stored in the desks. Because the children would not necessarily be assigned a desk individually, the storage of their equipment can be accomplished with some type of tote tray. These vary in size and design but most are plastic and can easily be carted around by the students. The trays are normally stored in cabinets which can then be used as a space modulator. There are several manufacturers of these items, but with a little imagination, items such as decorated shoe boxes, milk crates, and drawers can all accomplish the same thing.

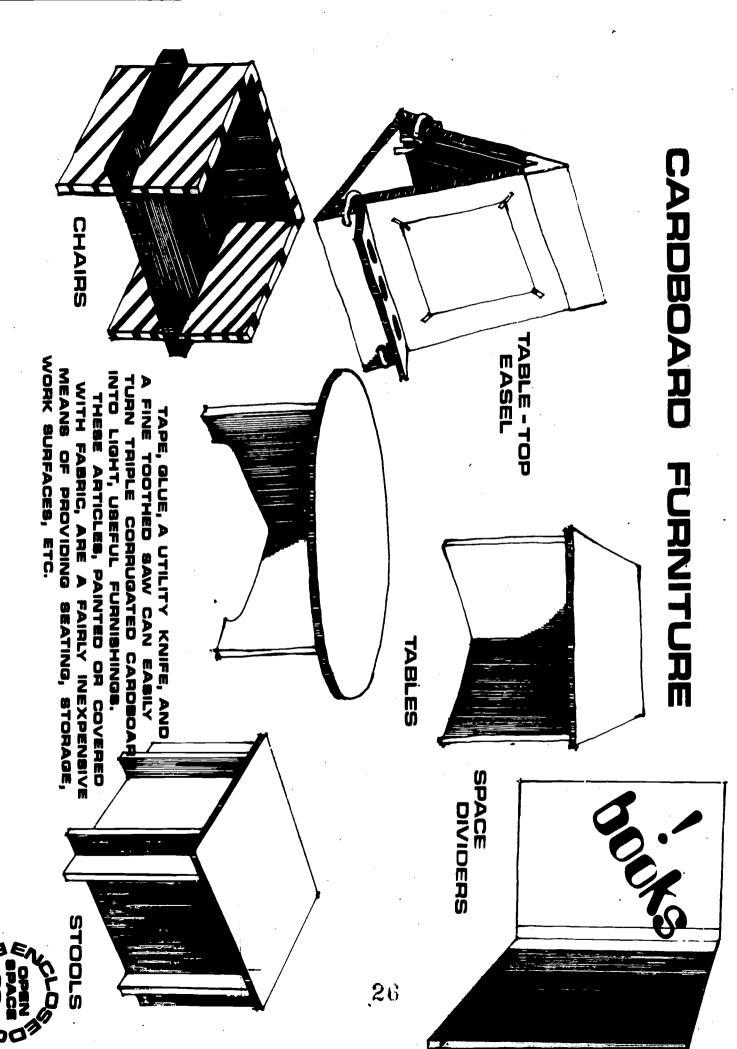


EDUCUBE

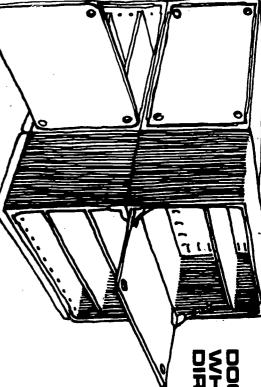


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CASEWORK SYSTEM



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VARIOUS **PNY** MAY REQUIREMENTS. POSITION STORAGE CONTAINER **ACTIVI** AND TIES 40 Ē

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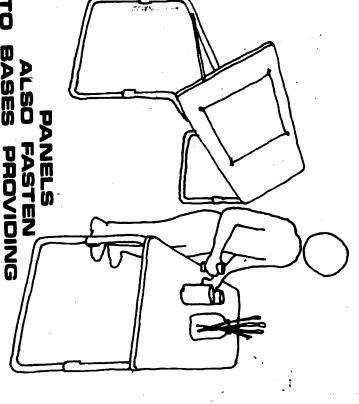
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ASSEMBLIES.



SURFACES. VARIOUS WORKING LEVELS. BASES POSITION PANELS HORIZONTAL BASES ADJUSTABLE OR SLOPED 2 HEIGHT **NOUX**

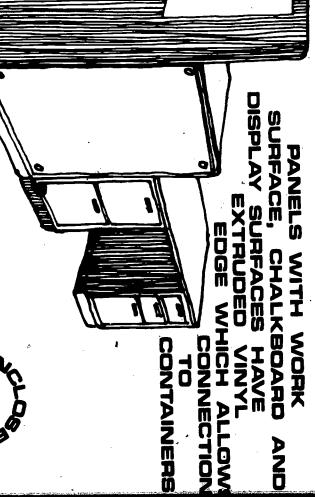
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CASEWORK SYSTEM

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NOIVIDUALIZED INSTRUCTION

Open classroom instruction concentrates mainly on indi educational standards. No child is expected to learn exclu see that they are, and remain, within a given framework of allowed to learn at their own paces, the teacher is there to vidualized education. While children are encouraged and from individual attention, he is expected and encourage learner, he should receive at least a minimum amount of sively on his own. Whether he is an aggressive or timid to continue learning when the teacher must direct h tion given to others in a group may still have this privileg those students who benefit from questioning and instru ualized instruction does not prohibit group instruction At the same time, it should be remembered that individ mentation of a solution should be considerably lessened learning problems, the time between discovery and imple individualized attention, the child is found to have specia along by the faster students, and if as a result of this mor rate, he is neither held back by "slower" learners or carrie attention to someone else. Being able to learn at his ow attention from the teacher, but because he does benefi Teachers are free to group children as they see fit, as



ORDER IN THE CLASS PLEASE

considered discipline, it is something that must begin on the very respect that will enable them to learn together. If such instruction is space, then they along with their teachers can establish the rules and shown the advantages and possibilities and are taught how to use the classroom is entirely dependent on the visual presence of the teacher ing on the floor, behind a partition, or in a special "nook," they may and the discipline and the respect they must have for themselves and classroom and its open environment can benefit them individually operation of the classroom is very dependent on it. Of equal signifi be in complete visual control of the room. If the students are work each other if it is to operate successfully. The teacher can no longer cance is an understanding on the part of all concerned of how the encourages independence and self-motivation, and the successful it is not likely that this situation will work, but if the children are be continuously out of sight of the teacher. If the discipline of the The spirit of an "open" classroom has been described as one that 31

The openess of the environment should not interfere with "normal" classroom behavior but a hidden advantage of this particular situation is that all students need not be attentively subjected to the individual problems and disabilities of other students. Those students who will purposely disrupt "order" in a classroom, may be denied the constant privilege of an audience. Other students may be elsewhere doing something that interest them independently of those who wish to draw attention to themselves.



FLEXIBILITY

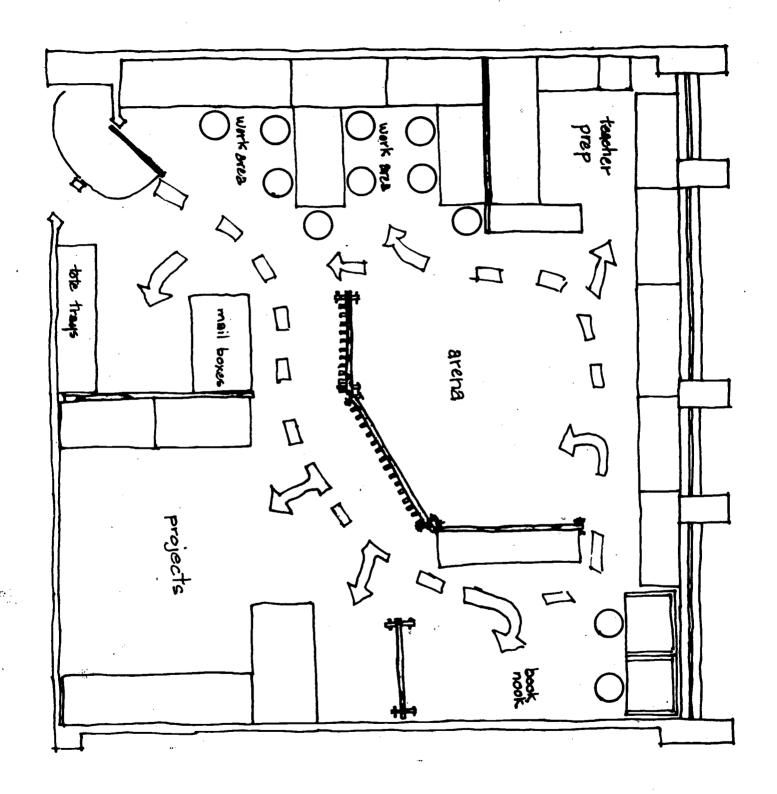
accomodate these fluctuations are likely to be the most eco needs are constantly changing, and those facilities which car quenting them. But whether the classrooms will conform and exactly alike in appearance or in the way in which they nomical and progressive. In open classrooms, physical flexi be overstressed in open environments. Programs, goals, and "open" in educational programs, and its importance cannot should be considered in attempts of promoting maximum the limited area of a classroom, it is not likely that a class respond to their needs is very dependent on the built-in bility is of equal importance. No two open classrooms are the mobile as well as manipulative features of the items allow for changes whenever a need for them arises. Thus in once having established its space requirements, will alter flexibility of the items with which they are furnished. Due to function, for each is dependent on the needs of those fre-Flexibility has almost become synonymous with the word those instances where new furnishings are to be purchased them every week, but the flexibility of the furnishings should



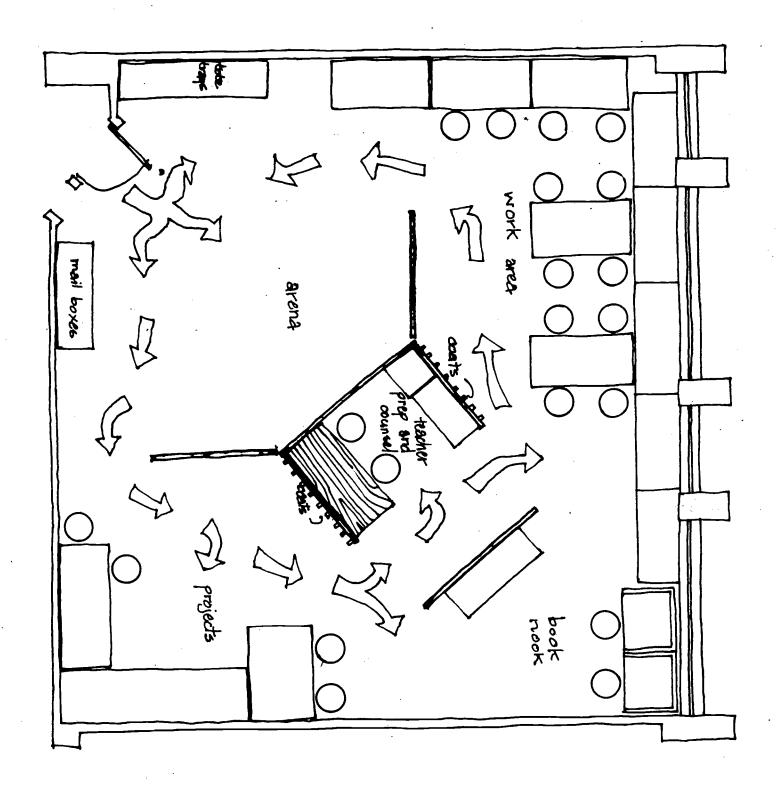
ARRANGEMENTS

desk and locker are located. While it is a good place to consult the seated on the floor. It is a good place for group study and instruction. a larger, open floor space where the entire class can assemble when receive their individual assignments. trays and mailboxes in which children store their belongings and how the class chooses to do so. Every room is also equipped with tote not necessarily restricted. How they are used is entirely dependent on teacher, it is also a good place to study. These designated areas are The teachers preparation area is merely the place where the teacher's is essential for those students who prefer to work at desks. The arena is The work area, a group of tables where students may work on anything, It is given to art and science, and those projects which require water, floor. The "projects" area is equipped with base cabinets and a sink "nooks" have tables but there is also space left to sit and work on the book nook is a place for reading and quiet study. Some of these areas where activities, according to their nature, may take place. The within an existing classroom. The idea is to create a number of different The following group of sketches are possible arrangements of space

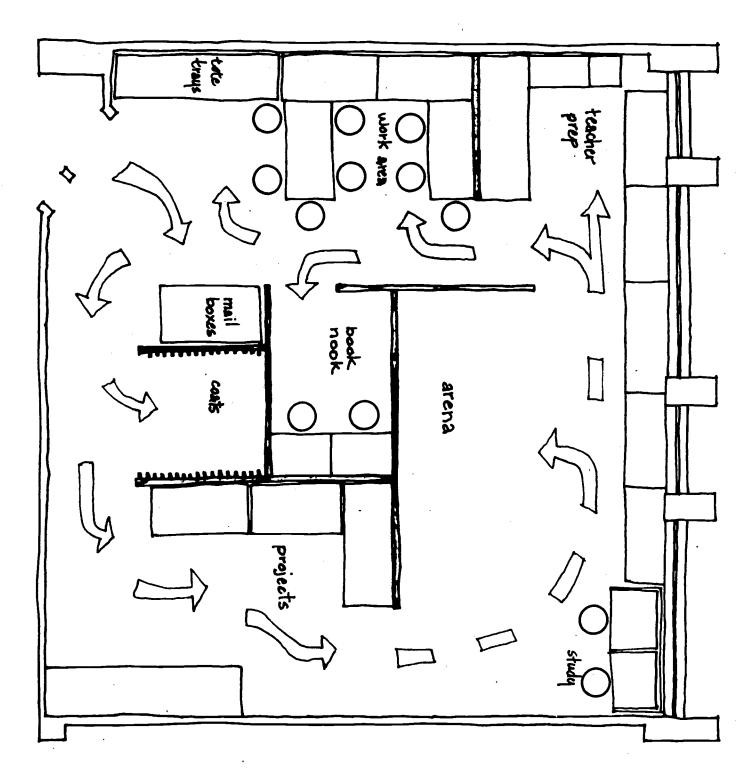




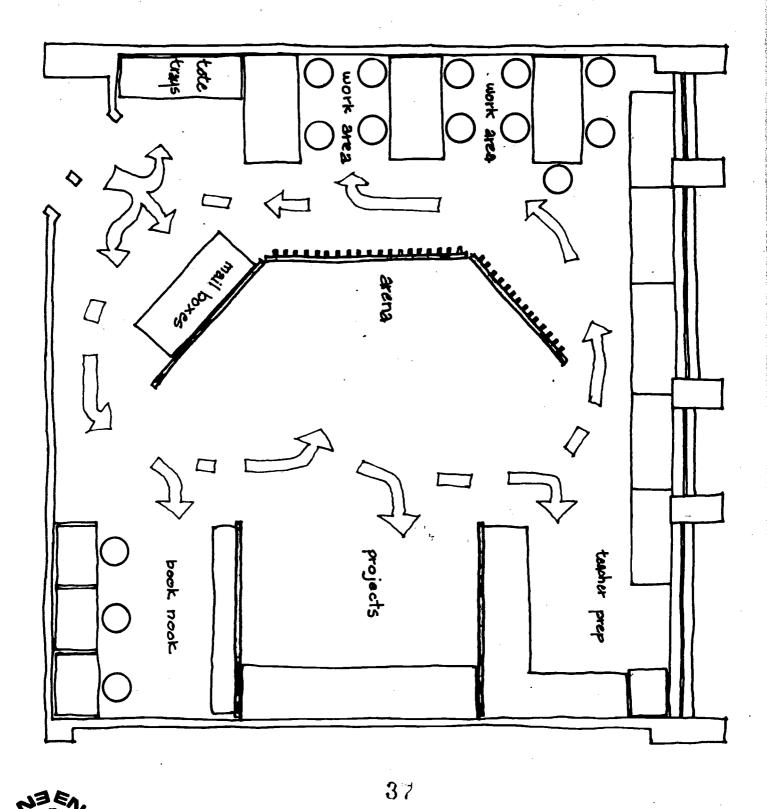














SYSTEN

The greatest portion of this report has concentrated on the treatment of the individual classroom. But because it is often desirable that these rooms be but a basic element of a comprehensive system, a word about how they may be used in conjunction with others is in order. There are several types of programs incorporating the classroom whose boundaries include as little as one classroom, and as much as an entire floor or wing of a building. Most all of the programs are a variation in degree and scale of the following:

- The sharing of common similar facilities and likewise teachers and students.
- The sharing of those facilities not given to any particular group.
- The sharing of all facilities by all groups such that all spaces are different and no group has sole access to any facility.

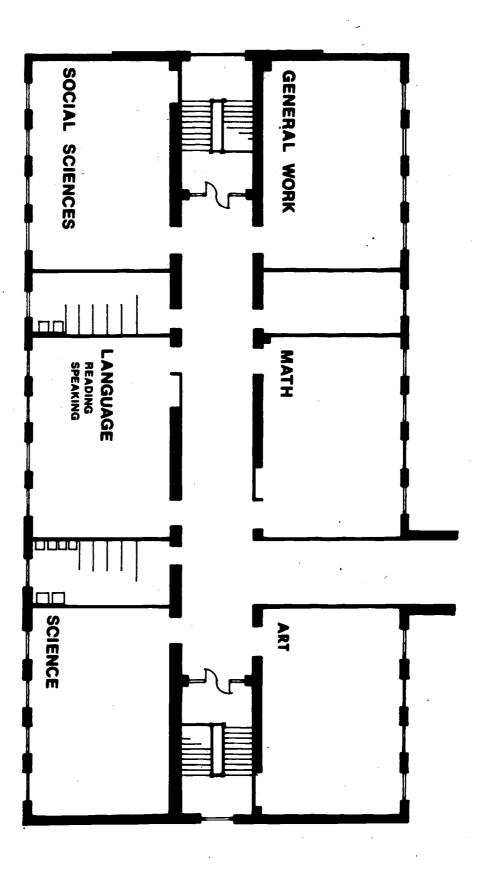
All of these systems, as stated, involve some degree of sharing of resources, facilities, students, and teachers. The advantage from such sharing is seen in the broadening of the exposure of children to varying abilities, personalities, and specialties of teachers. In addition, the children in sharing facilities are also likely to develop varied relationships with their peers and with students of other ages.



This system is based on the sharing of all facilities such that the learning space becomes a series of classrooms. Rather than being assigned to one room, the child moves to subject centers (classrooms) as his schedule dictates. These subject centers are designated locations of specific resources, and it is hoped that flexibility within a child's schedule will allow him to take advantage of these resources according to his individual interests and needs. In all probability, each of the classrooms would act as a home base for a group of children. This would provide a place for morning and afternoon assemblies, as well as assigning a teacher/counselor to each child. It is possible that during the course of the school year, it may be deemed beneficial to a particular student to reassign him to another home group. Such changes could be easily accomodated by this program because of the close association and communication of the teachers involved.

uvantages:

- 1. Because one classroom is given to a particular subject, there is more room for more varied resource materials. Instead of limited materials for math and counting, there can be an almost infinite supply of these resources.
- 2. There will be mobility of the students within the educational structure. They will be exposed to more students and teachers which gives a chance for more varied relationships. Such mobility can also have the effects of increasing the exposures and possible learning experiences.
- 3. This system can also take advantage of teachers who are special ists in certain fields and wish to pursue particular subjects in great detail.



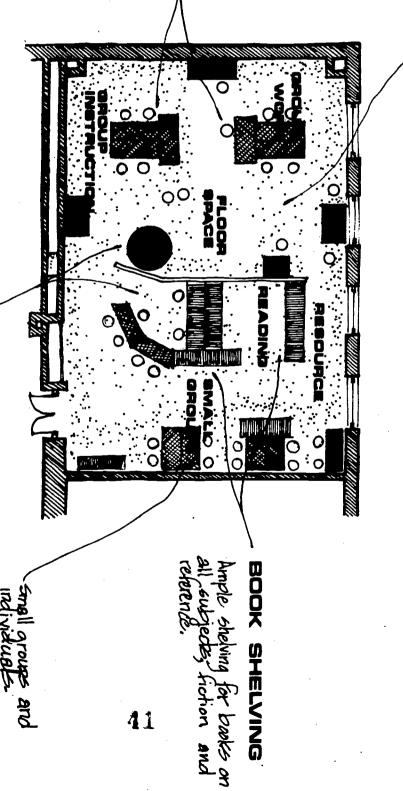
OPEN CLASSROOMS TEAM TEACHING



FLOOR SPACE

Open space for those who prefer the floor as a work surface.

NFORMAL PARTICULAR NOT GIVEN PLACE FOR STUDY SUBJECT TO ANY



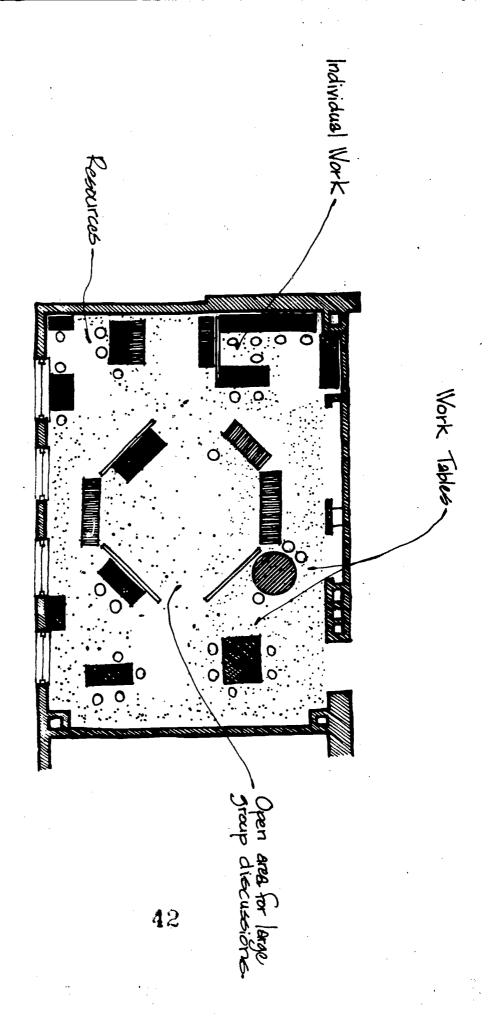
41

Group achvilies

Places for discussions and meetings



SOCIAL SCIENCE





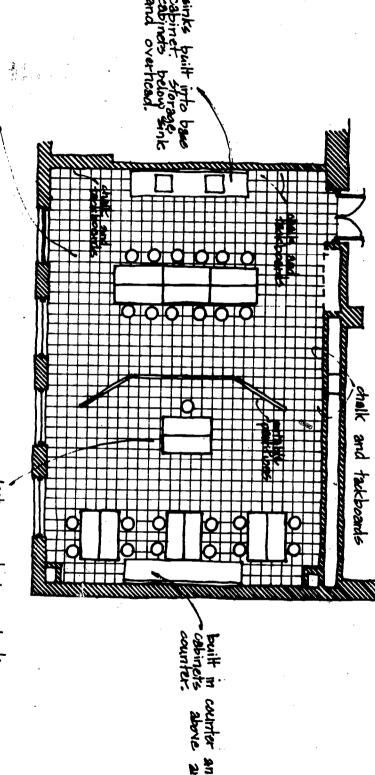
Open floor space to allow for assorted activities and the set-up of various equipment, such as essels, more work beaches, etc.

tables with stook for they of art work. They

. **4**3

SCIENCE CLASSROOM

cessible to all students in complex. May be used one area or divided to accompaint several sell groups. Here it is divided by portable withing to form two areas.



tile floor throughout entire room.

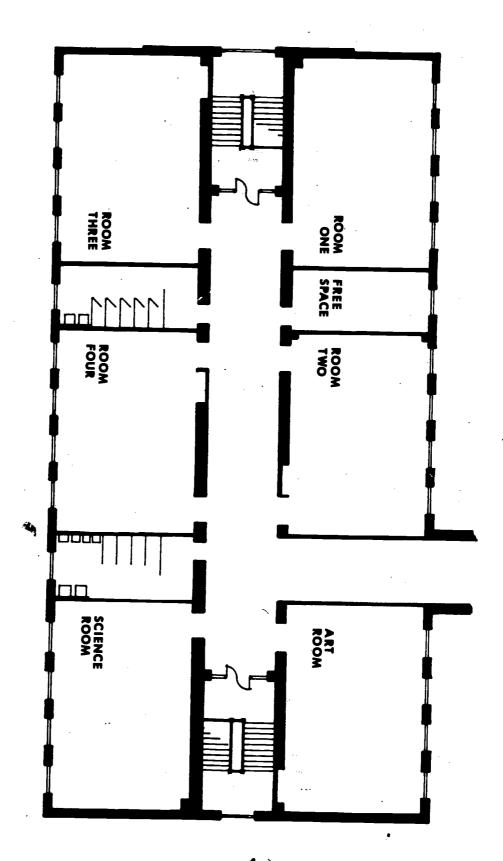
lecture and demonstration



The classroom approaches an entity in that most activities wil

Advantages:

- This self-contained type atmosphere may approach a "family" atmosphere which can be very healthy in a learning environment.
- 2. There is a certain sense of identity with a space which hopefully the teachers and children have arranged to suit themselves. This would almost be impossible with too large a number of students and teachers.
- Because most activities take place in the room, there are always several different activities taking place simultaneously. This can provide constant motivation for a student. If his interest has waned in that activity in which he is presently



OPEN CLASSROOMS



OPEN CLASUROCK

0 2 M

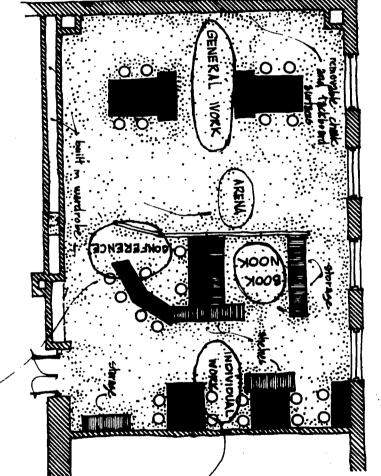
accompadating an pupils with exclusion of art and science project areas.

GENERAL WORK

Area for most and project especially those involving a lot of movement-

BOOK NOOK

Reading resource of various subjects. A good place to read or study.



INDIVIDUAL IVORK

47

A quiet place of work for small groups of two or three.

CONFERENCE

spen space for large group that take place on the

ARENA

semi-enclosed for any type of conference or discussion. A good place for small group



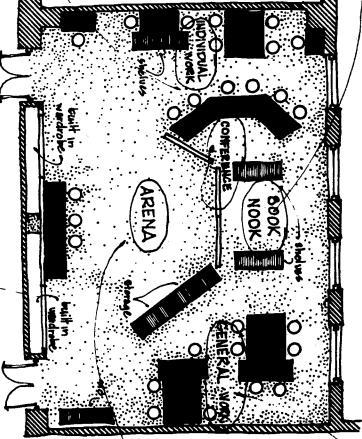
OPEN CLASSROOM

GENERAL IVORK

Any type of demonstration
of activity may take
before here.

BOOK NOOK

Books of all Kinck. A good place for reference research.



INDIVIDUAL WORK

Independent work area.

•

CONFERENCE

A good place for group discussions, small group instruction, and any type of counseling.



48

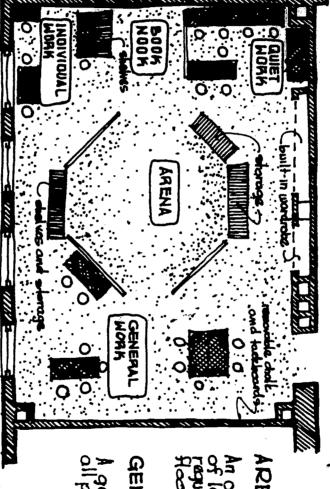
OPEN CLASSROOM

QUIET WORK

A general work area more restricted to quiet activities, by individuals or small groups

MOOK NOOK

deference materials on all subjects and a funct place to read or study



ARENA

49

An open space for gathering of large groups or activities regularing a great deal of floor space

GENERAL WORK

A general work area for all projects and activities

INDIVIDUAL HOPK

A space given to independent study



OPEZ CLASSROOM

This classroom can accomodate expupils with the actusion of science and art projects which take place in another room equipped with wet! facilities

RAP TRAP

A semi-enclosed space small group discussion ğ

CFTING

QUIET MORK

where students who desire ly or quetly with someone lhis is a general work orac movement and continuous

0 RAP Ę ZOX Z 0 0 GENERAL FRE

GENERAL NOR NACE

50

This area is for any project of though it is preserred that those involving a great deal of movement, discussion, and materials taka placa

STORAGE ALLEY

shelves that contain most materials available to etadents small mechanical agripment. It locate tota tray receptacles. of cases and

BOOK NOOK

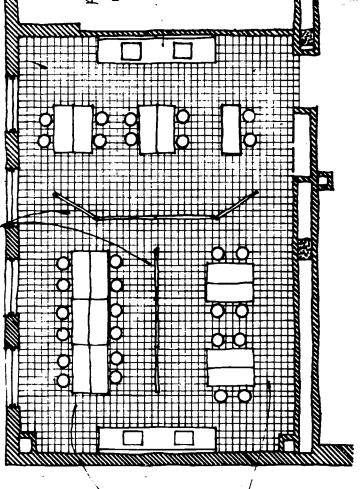
on all subjects. epace, it may be A gothering of riad or study resource books A semi-enclosed a good place to



SCIENCE

SCIENCE CLASSROOM

comodate so students at one time.



shation floor area, but ones has the use of

51

Tile floor for ease in maintenance:

Partitions are backed with either chark or tack board surfaces, to provide more learning surfaces. They may also be used for projector excens.



BIBLIOGRAPHY

(New York: Simon Schuster, 1963) Ashton-Warner, Sylvia, Teacher

(New York: Schocken Books, 1971) Hertzberg, Alvin and Stone, Edward F., Schools Are For Children

Kohl, Herbert R., The Open Classroom (New York: The New York Review, 1969)

(Washington, D.C.: Colortone Creative Publishing, 1969) Renfield, Dr. Richard, If Teachers Were Free

(New York: Teachers College Press, Columbia University, 1969) Hart, Leslie A., The Classroom Disaster

(New York: Schocken Books, 1971) Blackie, John, Inside the Primary School

Color Dynamics: The Inside Story **PPG** Industries

February 1971 Progressive Architecture: Editorial - Schools

Newton, Massachusetts Education Development Center **Building With Cardboard**

General Learning Corporation Fort Lincoln New Town First Facility - Educational Specifications



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Training Center for Open Space Schools Requirements for the Permanent Center National Geographic Center, 3rd Floor

First Facility Utilization Manual The Environments Group General Learning Corporation

J. Weldon Greene
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